

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	32	modif\$6 adj phase adj detector	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:19
L2	45011	nco numerical\$4 adj control\$4 adj oscillator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:18
L3	45011	nco (numerical\$4 adj control\$4 adj oscillator)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:02
L4	2	1 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:19
L5	316	modif\$6 near2 (phase adj (detector compar\$5 error))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:52
L6	23	3 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:25
L7	6	(phase adj detector) same (3) same (digital adj loop adj filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:27
L8	18	("2564014"   "2773179"   "2828411"   "3033453"   "3193827"   "3727220"   "3995271"   "4177430"   "4528565"   "4532604"   "4564815"   "4647874").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/15 20:31
L9	11	("5363112").URPN.	USPAT	OR	ON	2006/12/15 20:35
L10	2049	(digital adj phase adj lock\$5 adj loop) dpll	USPAT	OR	ON	2006/12/15 20:36
L11	0	integrator near3 (clock near3 scalable)	USPAT	OR	ON	2006/12/15 20:37
L12	2	integrator same (clock near3 scalable)	USPAT	OR	ON	2006/12/15 20:39
L13	491	integrator same (clock near3 rate)	USPAT	OR	ON	2006/12/15 20:39
L14	16	10 and 13	USPAT	OR	ON	2006/12/15 20:49
L15	222	digital adj loop adj filter	USPAT	OR	ON	2006/12/15 20:49
L16	17648	subtractor	USPAT	OR	ON	2006/12/15 20:51

## EAST Search History

L17	86860	(phase adj (detector compar\$5 error))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 20:53
L18	3	17 same 16 same (loop adj filter) same 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:01
L19	410	10.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:02
L20	58	17 and 16 and (loop adj filter) and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:02
L21	1	19 and 20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:08
L22	54	counter same 17 same 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:11
L23	2192	magnitude adj comparator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:46
L24	0	22 and 23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 21:10
L25	0	("2003/0063701").URPN.	USPAT	OR	ON	2006/12/15 22:45
L26	202	phase adj digiti\$4	USPAT	OR	ON	2006/12/15 22:46
L27	21725	magnitude near2 compar\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:46
L28	2	26 and 27	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:48
L29	1	counter same 26 same 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:49

## EAST Search History

L30	465406	(a/d digiti\$5 (analog adj2 digital))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:51
L31	8080	30 near4 phase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:51
L32	382	31 same counter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:53
L33	3	32 same 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:51
L34	103	31 and counter and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 22:54
L35	17	10 and 34	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:02
L36	29828	phase near2 sampl\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:02
L37	16	36 same counter same 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:11
L38	6	10 same 23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:15
L39	32	10 and 23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:23
L40	2	"5841303".pn. and oscillator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:46
L41	37886	scalable	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:48

## EAST Search History

L42	101	scalable near3 clock	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:48
L43	192	(loop adj filter) same integrator same adder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:50
L44	4	(loop adj filter) same (integrator near3 clock) same adder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/15 23:50
L45	7	("3843914"   "4019153"   "4242619"   "4271382"   "4272712"   "4283671"   "4355266").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/15 23:53
L46	4	("4816722").URPN.	USPAT	OR	ON	2006/12/16 00:08
L47	1829	scal\$4 near3 clock	USPAT	OR	ON	2006/12/16 00:09
L48	15	47 same (integrat\$3 accumulat\$4) same adder	USPAT	OR	ON	2006/12/16 00:10

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(integrator near3 adder near4 (clock adj divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:21
L2	1	(integrator same adder same (clock adj divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:24
L3	28	(integrator same adder same (clock near2 divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:33
L4	60	(accumulator same adder same (clock near2 divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:59
L5	58	4 not 3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:34
L6	73254	pll or (phase adj lock adj loop)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 10:40
L7	26	5 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:41
L8	182	((accumulator integrat\$4) same (adder combiner summer) same (clock near3 divid\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 09:00
L9	19009	loop adj filter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 09:00
L10	39	L9 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 09:00
L11	3	("5200982"   "5390180"   "5402452").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 09:09
L12	8	("5793824").URPN.	USPAT	OR	ON	2006/12/16 09:26
L13	685	L9 near4 digital	USPAT	OR	ON	2006/12/16 09:27
L14	263	13 same clock	USPAT	OR	ON	2006/12/16 09:27

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L15	98	"263" same integrator	USPAT	OR	ON	2006/12/16 09:27
L16	15	14 same integrator	USPAT	OR	ON	2006/12/16 09:38
L17	1	"6937685".pn.	USPAT	OR	ON	2006/12/16 09:38
L18	0	nco and 17	USPAT	OR	ON	2006/12/16 09:48
L19	21437	NCO (numerical\$4 adj control\$4 adj oscillator)	USPAT	OR	ON	2006/12/16 09:49
L20	4550	19.clm.	USPAT	OR	ON	2006/12/16 09:49
L21	58735	(fundamental center carrier) adj frequency	USPAT	OR	ON	2006/12/16 09:50
L22	40	20 same 21	USPAT	OR	ON	2006/12/16 10:14
L23	16327	sampl\$4 near2 phase	USPAT	OR	ON	2006/12/16 10:15
L24	545	phase near3 19	USPAT	OR	ON	2006/12/16 10:15
L25	35	23 same 24	USPAT	OR	ON	2006/12/16 10:26
L26	33	(phase adj ( error difference)) same 23 same 19	USPAT	OR	ON	2006/12/16 10:32
L27	12	26 not 25	USPAT	OR	ON	2006/12/16 10:27
L28	36	(phase adj2 ( error difference)) same 23 same 19	USPAT	OR	ON	2006/12/16 10:32
L29	15	28 not 25	USPAT	OR	ON	2006/12/16 10:39
L30	108	19 near4 accumulator	USPAT	OR	ON	2006/12/16 10:40
L31	11092	6.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 10:41
L32	2	30 and 31	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 10:49
L33	271	(phase adj detector) near4 polarity	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 10:50
L34	52	33.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:02
L35	7109	magnitude adj compar\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:02
L36	0	35 same 19 same 23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:04

## EAST Search History

L37	4	comparator same 19 same 23	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:10
L38	0	19 same ((phase adj digit\$4) (phase near2 sampl\$5)) same (magnitude near2 compar\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:13
L39	631	(magnitude near2 compar\$6) near4 phase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:13
L40	0	19 same 39	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:13
L41	536	19 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:14
L42	101	19 and (digital near3 6)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:15
L43	0	39 and 42	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:18
L44	96	39 and 6	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:18
L45	6422	375/371.ccls. 375/373.ccls. 375/374. ccls. 375/375.ccls. 375/376.ccls. 327/156.ccls. 375/159.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:43
L46	153	45 and 19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 11:43
S1	8639	integrator same adder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:29
S2	19009	loop adj filter	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:23

## EAST Search History

S3	3511	S2.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:24
S4	163	S1 and S3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:24
S5	1996	scal\$4 near2 clock	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:25
S6	1	S4 and S5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:24
S7	8398	divider near2 clock	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:25
S8	14	S4 and S7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:25
S9	67	integrator same adder same clock same scal\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 08:18
S10	35	S2 and S9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:30
S11	3	("4999528"   "5034967"   "5040193"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/12/16 00:33
S12	0	("6184734").URPN.	USPAT	OR	ON	2006/12/16 00:33
S13	43	integrator same adder same (clock near4 divid\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:43
S14	4	"6469166".pn. "6433531".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:48
S15	7231	(center adj frequency ) same oscillator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:49



## EAST Search History

S16	376	S2 same S15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:49
S17	203	(center adj frequency ) same ((numerica\$5 adj control\$4 adj oscillator) NCO)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 00:51
S18	16	S17 same (loop adj filter)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 01:00
S19	4128	dpll (digital adj phase adj lock\$4 adj loop)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 01:01
S20	548	S19.clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 01:01
S21	89	S3 and S20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/12/16 01:01